

54289-4

10/15/2014

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Ms. Tiana M. Rosamilia
Regulatory Manager for,
Evonik Degussa Corporation
299 Jefferson Road
Parsippany, NJ 07054

OCT 15 2014

Subject: Label Amendment
Product Name: Peraclean[®] 15
EPA Registration Number: 54289-4
Application Date: July 18, 2014
Decision Number: 493476

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). If you have any questions, please contact Karen M. Leavy by phone at (703)-308-6237, or via email at Leavy.Karen@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "SEIICHI MURASAKI".

Seiichi Murasaki
Acting Product Manager 33
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs
Date: October 15, 2014

PERACLEAN® 15

(PEROXYACETIC ACID SOLUTION)
 SANITIZER/DISINFECTANT DEVELOPED FOR THE FOLLOWING USES:

- ZONATION (NON-FOOD CONTACT SURFACES) OF PIPING LOCATED WITH RO MEMBRANES
- Washable equipment from piping system. This includes activated and ion exchange equipment. Turn off power to ultraviolet stimate total volume of water contained in the system (tanks and piping). Prepare an appropriate volume of 0.33 to 0.5% solution prepared. Use RO permeate or similar quality water for solution prepared. Use RO permeate or similar quality water for solution prepared. Use RO permeate or similar quality water for solution prepared.
- Disinfectant for poultry premises, trucks, coops and crates.
- Remove all poultry and feces from premises, trucks, coops and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse. See your technical representative for specific recommendations for all cleaning and rinsing requirements.
- Disinfection and deodorizing of animal housing facilities (barns, kennels, hutches, etc.)
- Do not use in milking stalls, milking parlors, or milk houses for phenolics, cresylic acid, and pine oils). Remove animals and feed from premises, vehicles, and enclosures. Remove litter, waste matter, and gross soils from floors, walls and surfaces of barns, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Immerse all harnesses, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not manure. Livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.
- For sanitizing of hatching eggs
- Prepare a solution of PERACLEAN® 15 by diluting 0.33 fluid ounce PERACLEAN® 15 with 5 gallons of water. As eggs are gathered or prior to setting, apply solution as a coarse spray so as to lightly wet all shell surfaces. NOTE: This product at its use dilution is compatible with stainless steel and aluminum surfaces. If product is intended to be used on any other surfaces, it is recommended that you apply product to a smaller test area to determine compatibility before proceeding with its use.
- For treatment of raw, unprocessed fruit and vegetable surfaces
- PERACLEAN® 15 can be applied as a dip or spray to control the growth of non-public health microorganisms that may cause decay and/or spoilage on raw, post-harvest fruits and vegetables during the washing process. This product can be applied during physical cleaning processes, including at the roller spreader, washer manifold, dip tank, on the brushes or elsewhere in the washing process prior to, simultaneously with, or after detergent wash.
- Prepare treating solution by diluting 1 fluid ounce per 16 gallons of potable water. This will provide 85 ppm peroxyacetic acid and 125 ppm hydrogen peroxide.
- Apply the diluted sanitizer solution using a coarse spray directed at the fruits or vegetables, or by soaking the fruits and vegetables in the solution. Allow a contact time of at least 45 seconds.
- The treated produce can be drain dried without a potable water rinse.
- Do not reuse solution after treatment.
- For the treatment of processed fruits and vegetables and process waters to control growth of non-public health microorganisms that can cause spoilage
- Prepare treating solution by diluting 1.5 fluid ounces per 25 gallons of potable water. This will provide 80 ppm peroxyacetic acid and 117 ppm hydrogen peroxide.
- Apply the diluted sanitizer solution as a spray or dip. Allow a contact time of at least 45 seconds. No rinse following application is required. This use complies with the requirements of 21 CFR 173.315 (a) 5
- The treated produce can be drain dried without a potable water rinse.
- Do not reuse solution after treatment.
- For use in manufacture of material intended for food contact
- PERACLEAN® 15 can be used as an in-container preservative for the control of bacteria and fungi in water-based coatings such as paper coatings. Add 0.1 to 0.5 lbs. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 to each 1000 lbs. of preservative. This will provide 15 to 75 ppm peroxyacetic acid (100 to 500 ppm PERACLEAN® 15).
- Antimicrobial Rinse of Pre-Cleaned or New Returnable or Non-Returnable Containers
- To reduce the number of non-pathogenic beverage spoilage organisms. Effective against *Aspergillus versicolor* (ATCC 9577), *Byssoschlamy trulla* (ATCC 10099), *Pedococcus dammosus* (ATCC 29358), *Lactobacillus buchneri* (ATCC 4005), and *Saccharomyces cerevisiae*.
- Prepare PERACLEAN® 15 solution by adding 9.85 fl. oz. to 5 gallons of potable water. This provides 2,620 ppm peroxyacetic acid.
- Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow a minimum seven-second contact period (ATCC 47068)
- Allow containers to drain thoroughly, and then rinse with sterile or potable water.

CONTROL OF BACTERIA AND FUNGI IN NON-FOOD CONTACT DISPERSED PIGMENTS

PERACLEAN® 15 can be used in the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate and diatomaceous earth used in paint and paper production. Add 0.1 to 0.5 lbs. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 to each 1000 lbs. of pigment slurry. This will provide 15 to 75 ppm peroxyacetic acid (100 to 500 ppm PERACLEAN® 15).

CONTROL OF SLIME FORMING BACTERIA IN COOLING TOWERS (COOLING TOWERS, CONDENSERS)

Severely fouled systems should be cleaned before adding the PERACLEAN® 15 solution. PERACLEAN® 15 should be added in the system directly and not mixed with any other chemicals or additives.

CONTROL OF BACTERIA AND FUNGI IN COATING PRESERVATION

PERACLEAN® 15 can be used as an in-container preservative for the control of bacteria and fungi in water-based coatings such as paper coatings. Add 0.1 to 0.5 lbs. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 to each 1000 lbs. of preservative. This will provide 15 to 75 ppm peroxyacetic acid (100 to 500 ppm PERACLEAN® 15).

ANTIMICROBIAL RINSE OF PRE-CLEANED OR NEW RETURNABLE OR NON-RETURNABLE CONTAINERS

To reduce the number of non-pathogenic beverage spoilage organisms. Effective against *Aspergillus versicolor* (ATCC 9577), *Byssoschlamy trulla* (ATCC 10099), *Pedococcus dammosus* (ATCC 29358), *Lactobacillus buchneri* (ATCC 4005), and *Saccharomyces cerevisiae*.

PREPARE PERACLEAN® 15 SOLUTION BY ADDING 9.85 FL. OZ. TO 5 GALLONS OF POTABLE WATER. THIS PROVIDES 2,620 PPM PEROXYACETIC ACID.

Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow a minimum seven-second contact period (ATCC 47068)

Allow containers to drain thoroughly, and then rinse with sterile or potable water.

DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS AND CRATES

Remove all poultry and feces from premises, trucks, coops and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse. See your technical representative for specific recommendations for all cleaning and rinsing requirements.

DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACILITIES (BARNS, KENNELS, HUTCHES, ETC.)

Do not use in milking stalls, milking parlors, or milk houses for phenolics, cresylic acid, and pine oils). Remove animals and feed from premises, vehicles, and enclosures. Remove litter, waste matter, and gross soils from floors, walls and surfaces of barns, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.08% (0.5 fl. oz./5 gal.) solution of PERACLEAN® 15 for a period of 10 minutes. Immerse all harnesses, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not manure. Livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

FOR SANITIZING OF HATCHING EGGS

Prepare a solution of PERACLEAN® 15 by diluting 0.33 fluid ounce PERACLEAN® 15 with 5 gallons of water. As eggs are gathered or prior to setting, apply solution as a coarse spray so as to lightly wet all shell surfaces. NOTE: This product at its use dilution is compatible with stainless steel and aluminum surfaces. If product is intended to be used on any other surfaces, it is recommended that you apply product to a smaller test area to determine compatibility before proceeding with its use.

FOR TREATMENT OF RAW, UNPROCESSED FRUIT AND VEGETABLE SURFACES

PERACLEAN® 15 can be applied as a dip or spray to control the growth of non-public health microorganisms that may cause decay and/or spoilage on raw, post-harvest fruits and vegetables during the washing process. This product can be applied during physical cleaning processes, including at the roller spreader, washer manifold, dip tank, on the brushes or elsewhere in the washing process prior to, simultaneously with, or after detergent wash.

PREPARE TREATING SOLUTION BY DILUTING 1 FLUID OUNCE PER 16 GALLONS OF POTABLE WATER. THIS WILL PROVIDE 85 PPM PEROXYACETIC ACID AND 125 PPM HYDROGEN PEROXIDE.

Apply the diluted sanitizer solution using a coarse spray directed at the fruits or vegetables, or by soaking the fruits and vegetables in the solution. Allow a contact time of at least 45 seconds.

The treated produce can be drain dried without a potable water rinse.

Do not reuse solution after treatment.

FOR THE TREATMENT OF PROCESSED FRUITS AND VEGETABLES AND PROCESS WATERS TO CONTROL GROWTH OF NON-PUBLIC HEALTH MICROORGANISMS THAT CAN CAUSE SPOILAGE

Prepare treating solution by diluting 1.5 fluid ounces per 25 gallons of potable water. This will provide 80 ppm peroxyacetic acid and 117 ppm hydrogen peroxide.

Apply the diluted sanitizer solution as a spray or dip. Allow a contact time of at least 45 seconds. No rinse following application is required. This use complies with the requirements of 21 CFR 173.315 (a) 5

The treated produce can be drain dried without a potable water rinse.

Do not reuse solution after treatment.

BEFORE USING THIS PRODUCT, PLEASE READ THIS ENTIRE LABEL CAREFULLY.

KEEP OUT OF REACH OF CHILDREN

DANGER

Label not for use in California

Institutional/Industrial Sanitized Non-Porous Food Contact Surfaces in:	Hard Surface Disinfection In:	Bacteria, Fungi, and Slime Control In:	Active Ingredients:
•Dairies	•Hospitals	•Pulp and Paper Mill Systems	Hydrogen Peroxide 22.0%
•Breweries	•Health Care Facilities	•Dispersed Pigments	Peroxyacetic Acid 15.0%
•Food and Beverage Plants	•Colleges	•Cooling Water Systems	Inert Ingredients 63.0%
•Disinfecting Poultry Premises	•Veterinary Clinics	•Coatings Preservation	Total: 100%
•Poultry Hatcheries	•Animal Life Science Laboratories		Net contents as stated on container
•Animal Housing Facilities	•Industrial Facilities		
•Reverse Osmosis Membranes and Ultra Filtration	•Office Buildings		
	•Retail and Wholesale Establishments		

EPA Reg No.: 54289-4
 EPA ESTAB. NO.: 70263-CA-002
 70547-IL-001

FIRST AID

If in eyes, hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call poison control center or doctor for treatment advice.

If swallowed: Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call poison control center or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
 DANGER. CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through the skin. Harmful if swallowed. Do not breathe vapors or spray mist. Do not get in eyes on skin or on clothing. Wear goggles and/or face shield and rubber gloves when handling. Do not enter an enclosed area without proper respiratory protection. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

PHYSICAL AND CHEMICAL HAZARDS
 STRONG OXIDIZING AGENT. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. PERACLEAN® 15 is not combustible; however, at temperatures exceeding 156°F, decomposition occurs releasing oxygen. The oxygen released could initiate combustion.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds, fish, and aquatic invertebrates. Caution should be used when applying indoors, because pets may be at risk. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewerage treatment plant authority. For guidance contact your State Water Board or Regional Office of the US Environmental Protection Agency.

ACCEPTED

OCT 13 2014

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 54289-4

Manufactured by:
 Evonik Corporation
 299 Jefferson Rd
 Parsippany, New Jersey 07654-0677

EVONIK INDUSTRIES

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DISINFECTION AND CLEANING

• NO 15 is effective against *Staphylococcus aureus*, *Salmonella*, *Pseudomonas aeruginosa*, *Trichophyton meningophyces*, and *Candida albicans* (0.08% (0.5 fl. oz./5 gal.) in hard nonporous surfaces. For 4 areas a pre-cleaning step is required. Apply solution with mop, brush, scrubber, or coarse spray device, or by soaking so as to be thoroughly wet for 10 minutes, then remove and replace with a clean wet mop, cloth, or wet vacuum.

• NO 15 is a fresh solution daily or when it becomes soiled or diluted.

• NO 15 is designed for use in animal hospitals, animal laboratories, shops, zoos, pet animal quarters, poultry premises, poultry and livestock quarters. When used as directed, PERACLEAN® 15 is designed to disinfect, deodorize and clean inanimate, hard, non-porous surfaces, such as walls, floors, sink tops, furniture, operating tables, kennel and feeding and watering equipment. In addition PERACLEAN® 15 is designed to keep generally fresh and clean storage areas, empty garbage bins and cans, and any other equipment that will contact food, feed, or drinking water must be cleaned with PERACLEAN® 15 before reuse.

• Prepare a fresh solution, a pre-cleaning step is required.

INTERMITTENT ADDITION TO MINIMIZE THE ACCUMULATION OF MATTER BETWEEN INTERMITTENT SANITIZING EPISODES IN ANIMAL HOUSING FACILITIES (NON-FOOD CONTACT)

PERACLEAN® 15, as received or diluted, may be added to the feed water system, between system sanitizing episodes, to minimize the (repeated) accumulation of biological matter. The residual in the system which will be effective will vary with the usage characteristics of the system. Adjust the addition rate and the addition frequency to maintain a residual concentration of 1.4 ppm (0.33 fluid ounce of product per 440 gallons of water) in the feed water. For continuous addition, add 1.4 ppm (0.33 fluid ounce of product per 440 gallons of water) to the feed water. For intermittent feed, do not exceed 750 ppm (8.5 fluid ounce per 100 gallons of water) PERACLEAN® 15. This will provide 15 to 75 ppm peroxyacetic acid and 160 ppm hydrogen peroxide.

CONTROL OF BACTERIA AND FUNGI IN NON-FOOD CONTACT DISPERSED PIGMENTS

PERACLEAN® 15 can be used in the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate and diatomaceous earth used in paint and paper production. Add 0.1 to 0.5 lbs. (1.4 to 6.85 fl. oz.) of PERACLEAN® 15 to each 1000 lbs. of pigment slurry. This will provide 15 to 75 ppm peroxyacetic acid (100 to 500 ppm PERACLEAN® 15).

CONTROL OF SLIME FORMING BACTERIA IN COOLING TOWERS (COOLING TOWERS, CONDENSERS)

Severely fouled systems should be cleaned before adding the PERACLEAN® 15 solution. PERACLEAN® 15 should be added in the system directly and not mixed with any other chemicals or additives.

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ANTIMICROBIAL RINSE OF PRE-CLEANED OR NEW RETURNABLE OR NON-RETURNABLE CONTAINERS

To reduce the number of non-pathogenic beverage spoilage organisms. Effective against *Aspergillus versicolor* (ATCC 9577), *Byssoschlamy trulla* (ATCC 10099), *Pedococcus dammosus* (ATCC 29358), *Lactobacillus buchneri* (ATCC 4005), and *Saccharomyces cerevisiae*.

PREPARE PERACLEAN® 15 SOLUTION BY ADDING 9.85 FL. OZ. TO 5 GALLONS OF POTABLE WATER. THIS PROVIDES 2,620 PPM PEROXYACETIC ACID.

Apply antimicrobial rinse at a temperature of 40°C to 60°C (104°F to 140°F) and allow a minimum seven-second contact period (ATCC 47068)

Allow containers to drain thoroughly, and then rinse with sterile or potable water.

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Bactericidal, Virucidal, Fungicidal, Tuberculocidal

For use on hard, non-porous surfaces.

Application:

PERACLEAN® 15 disinfects as it cleans in one operation. PERACLEAN® 15 can be used to disinfect floors, walls and other hard nonporous surfaces such as tables, chairs, countertops, bathroom fixtures, sinks, bed frames, doors, shelves, racks, carts, refrigerators, coolers, glazed tile, linoleum, vinyl, non-porous glazed porcelain, glazed ceramic, plastic (such as polypropylene and polyethylene), stainless steel, glass, aluminum, non-porous baked enamel, chrome, laminated or painted surfaces or sealed stone. PERACLEAN® 15 should not be used on marble or brass surfaces.

For health care, institutional, and industrial use.

Areas of use in hospitals: PERACLEAN® 15 may be used for surgical and obstetrical suites; housekeeping surfaces; physical therapy departments; nursing services; dental facilities; autopsy facilities; intensive care units; pharmacies; and clinical laboratories. Also, use PERACLEAN® 15 in nursing homes, other health-care facilities, schools, colleges, veterinary clinics, animal life science laboratories, industrial facilities, office buildings, recreational facilities, industrial facilities; hotels; retail facilities; office buildings; retail and wholesale establishments.

This product is not to be used as a terminal sterilant/high level disinfectant on any instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

Dilute PERACLEAN® 15 with the appropriate amount of water to an effective concentration of 1135ppm Peracetic acid and 1665ppm hydrogen peroxide (0.85 fl. oz per gallon of water). Apply solution with a cloth, mop, sponge, auto-scrubber, or hand pumped trigger sprayer such that all surfaces remain wet for 1 minute to kill bacteria, viruses, and fungi as cited on the label. Use a 3 minute contact time for Streptococcus pneumoniae, and Vancomycin-Resistant Enterococcus faecalis. Use a 10 minute contact time for Poliovirus Type 1 and Tuberculocidal activity. PERACLEAN® 15 is effective against Mycobacterium bovis (TB surrogate) at ambient temperature (22°C). Allow surface to air dry. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or more often if the use solution becomes visibly soiled, clouded or diluted.

This product is not for use on medical device surfaces.

(OR)

PERACLEAN® 15 (AIDS Virus), HBV, and HCV: Cleaned environmental surfaces/objects previously soiled with blood/body fluids in health care settings or other settings in which there is an expected likelihood of soiling of surfaces/ objects with blood or body fluids, and in which the surfaces/ objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of human immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus, or Hepatitis C Virus.

Special instructions for cleaning and decontamination against HIV-1 (AIDS Virus), HBV, and HCV of surfaces/ objects soiled with blood/body fluids. Personal Protection: Disposable protective gloves, gowns, face masks, or eye coverings as appropriate must be worn during all cleaning of body fluids, blood and decontamination procedures. Cleaning Procedure: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application. Contact Time: HIV-1, HBV, and HCV are inactivated after 1 minute of contact.

Infectious material: Blood and other bodily fluids should be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

PERACLEAN® 15 is effective against the following organisms in 1 minute with 5% organic soil load and 400ppm hard water. For use on hard, non-porous surfaces.

* Contact time is increased to 10 minutes to be effective against Poliovirus Type 1 and Mycobacterium bovis (TB surrogate).

§ Contact time is increased to 3 minutes to be effective against Streptococcus pneumoniae and Vancomycin resistant Enterococcus faecalis (VRE).

Bacteria	Human viruses
Acinetobacter baumannii ATCC 19606	Herpes simplex virus Type 1 ATCC VR-260
Clostridium perfringens ATCC 13124	Herpes simplex virus Type 2 ATCC VR-734
Community-associated MRSA, USA300 strain (CA-MRSA) CI 08001	Human immunodeficiency virus type 1 (HIV-1) (Zeptomatrix Corporation)
Escherichia coli O157:H7 ATCC 35150	Human Influenza A virus (A/Hong Kong/8166-H3N2) SPAFAS
Klebsiella pneumoniae ATCC 4352	Human Rotavirus ATCC VR-2018
Listeria monocytogenes ATCC 19111	Poliovirus Type 1* ATCC 1562
Methicillin-resistant Staphylococcus aureus (MRSA) ATCC 33592	Respiratory Syncytial Virus ATCC VR-26
Methicillin-resistant Staphylococcus epidermidis (MRSE) ATCC 51625	Rhinovirus Type 37 ATCC 1147
Mycobacterium bovis (TB surrogate)* (Organon Teknika Corp)	Vaccinia virus ATCC VR-156
Pseudomonas aeruginosa ATCC 15442 ATCC VR-740	Human Coronavirus strain 229e
Salmonella enterica ATCC 10708	Bovine viral diarrhoea virus (Human Hepatitis C surrogate) (American Bioresearch Laboratories)
Salmonella enterica serovar Typhimurium ATCC 13311	Duck hepatitis B virus (Human Hepatitis B surrogate) (Hepanda Virus Testing)
Serratia marcescens ATCC 13880	Feline calicivirus (Norovirus surrogate) (University of Ottawa)
Shigella dysenteriae serotype 1 ATCC 29026	Animal viruses
Staphylococcus aureus ATCC 6538	Avian influenza A (Turkey/Wis/66-H9N2) SPAFAS
Streptococcus pneumoniae ATCC 6304	Fungi
Streptococcus pyogenes ATCC 19615	Candida albicans ATCC 10231
Vancomycin-intermediate Staphylococcus aureus (VISA) ATCC 700787	Trichophyton mentagrophytes ATCC-9533§
Vancomycin-resistant Enterococcus faecalis (VRE) § ATCC 51575	Yersinia enterocolitica ATCC 35669



Manufactured by
Evonik Corporation
299 Jefferson Rd
Parsippany, New Jersey 07054-0677

FOR ANTIMICROBIAL USE WITH AQUEOUS TREATMENT FLUIDS.

IN SUBTERRANEAN OILFIELD AND GAS-FIELD WELL OPERATIONS SUCH AS WELL DRILLING, FORMATION FRACTURING, PRODUCTIVITY ENHANCEMENT AND SECONDARY RECOVERY.

PERACLEAN® 15 can be used for control of slime forming and spoilage bacteria, yeast and fungi and anaerobic sulfate reducing bacteria, that lead to reservoir souring and metal corrosion.

This product must be introduced through a closed mixed/loading and delivery transfer system equipped with a metering device that is appropriate for its intended uses.

DRILLING MUDS, FRACTURING FLUIDS, WELL SQUEEZED FLUIDS

For the preservation of drilling muds, workover and completion fluids and other product susceptible to contamination, pre-mix with the fluid or add directly at the point of use at 3.75 fluid ounces per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) as required. Depending on the severity of the contamination, initial application may be added up to 749 fluid ounces per 1000 gallons of water (1000 ppm).

FLOODING, INJECTION AND PRODUCED WATER

For Water Flooding operations, add initially at 3.75 fluid ounces per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) and repeat until control is achieved. Subsequent treatment may be continued on a weekly basis or as required.

Injection wells associated with gas storage systems may be treated up to 100 ppm when diluted in the formation water. Any additional top-up water should be treated as required.

For hydrostatic systems, apply 3.75 fluid ounces per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) depending on the water quality and the duration of the shut-in.

PIPELINE AND TANK MAINTENANCE

For microbial control in water-bottoms in crude and refined hydrocarbon storage tanks, piping and transportation systems. Apply 3.75 fluid ounces per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) in the aqueous phase, directly injected into the water-bottom, pipeline or may be added to the hydrocarbon phase. Treatment may be applied daily or monthly for both storage and transportation systems as needed.

FOR DISINFECTION OF SEWAGE AND WASTEWATER TREATMENT PLANTS

Use PERACLEAN® 15 to treat wastewater effluent related to public and private treatment plants.

Peraclean 15 can be applied directly to or may be used with an appropriate such as hydrogen peroxide or other Peraclean 15 may be applied to effluents discharged from trickle bed or percolated bed filters. The application rate for facilities will depend on the degree of local microbial discharge limit. Adjust rate to meet the need of the individual

1. Add PERACLEAN® 15 to effluent concentration of 0.5 ppm to 15 ppm. Time of approximately 15 to 60 minutes

2. The maximum amount of peracetic acid to be discharged from the treatment facility Use an appropriate peracetic acid test to ensure that this level is not exceeded. Evonik Corporation for assistance treatment regimes.

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PERACLEAN® 15 is effective against the following organisms in 1 minute with 5% organic soil load and 400ppm hard water. For use on hard, non-porous surfaces.

Contact time is increased to 10 minutes to be effective against Poliovirus Type 1 and Mycobacterium bovis (TB agent).
 Contact time is increased to 3 minutes to be effective against Streptococcus pneumoniae and Varicomyxin resistant streptococcus faecalis (VRE).

actera	Human virusesΔ		
cinetobacter baumannii ATCC 19606	Herpes simplex virus Type 1 ATCC VR-260		
lostridium perfringens ATCC 13124	Herpes simplex virus Type 2 ATCC VR-734		
community-associated MRSA, USA300 strain (SA-MRSA) CI 08001	Human immunodeficiency virus type 1		
HIV-1 (Zeptomatrix Corporation)			
shcherichia coli O157:H7 ATCC 35150	Human Influenza A virus (A/Hong Kong/8/68-H3N2) SPAFAS		
lebsiella pneumoniae ATCC 4352	Human Rotavirus ATCC VR-2018		
isteria monocytogenes ATCC 19111	Poliovirus Type 1* ATCC 1562		
lethicillin-resistant Staphylococcus aureus (MRSA) ATCC 33592	Respiratory Syncytial Virus ATCC VR-26		
lethicillin-resistant Staphylococcus epidermidis (MRSE) ATCC 51625	Rhinovirus Type 37 ATCC 1147		
ycobacterium bovis (TB surrogate)*			
rganon Teknika Corp)	Vaccinia virus ATCC VR-156		
seudomonas aeruginosa ATCC 15442	Human Coronavirus strain 229e		
ITCC VR-740			
almonella enterica ATCC 10708	Bovine viral diarrhoea virus (Human Hepatitis C surrogate) (American Bioresearch Laboratories)		
almonella enterica serovar Typhimurium ATCC 3311	Duck hepatitis B Virus (Human Hepatitis B surrogate) (He panda Virus Testing)		
erratia marcescens ATCC 13880	Feline calicivirus (Norovirus surrogate) (University of Ottawa)		
higella dysenteriae serotype 1 ATCC 29026	Animal virusesΔ		
haphylococcus aureus ATCC 6538	Avian Influenza A (Turkey/Wis/66-H9N2) SPAFAS		
hreatpococcus pneumoniae ATCC 6304			
hreatpococcus pyogenes ATCC 19615	Fungi		
ancomycin-intermediate Staphylococcus aureus (VISA) ATCC 700787	Candida albicans ATCC 10231		
ancomycin-resistant Enterococcus faecalis (VRE) ATCC 51575	Trichophyton mentagrophytes ATCC 3533		
hribrio cholerae ATCC 14035			
ersinia enterocolitica ATCC 35669			

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FOR DISINFECTION OF SEWAGE AND WASTEWATER EFFLUENTS IN TREATMENT PLANTS

Use PERACLEAN® 15 to treat sewage and wastewater effluent related to public and private wastewater treatment plants.

Peraclean 15 can be applied directly to the effluent or may be used with an appropriate activator such as hydrogen peroxide or other technology. Peraclean 15 may be applied to effluent water discharged from trickle bed or percolating fluidized bed filters. The application rate for individual facilities will depend on the degree of bioloading of the effluent stream to be discharged and the local microbial discharge limit. Adjust application rate to meet the need of the individual facility.

1. Add PERACLEAN® 15 to effluent water at a concentration of 0.5 ppm to 15 ppm. Allow contact time of approximately 15 to 60 minutes.

2. The maximum amount of peracetic acid that can be discharged from the treatment facility is 1 ppm. Use an appropriate peracetic acid test kit analyzer to ensure that this level is not exceeded. Contact Evonik Corporation for assistance establishing treatment regimes.

STORAGE AND DISPOSAL

Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE: Store in original containers in a cool, well-ventilated area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited. If wastes cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container unless the directions for use allow a different (concentrated) product to be diluted in the container.

Containers less than 5 gallons:

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Containers greater than 5 gallons:

Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand container on its end and tip back and for the several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use of disposal. Repeat the procedure two more times. Then offer for recycling or dispose in a sanitary landfill, or by incineration, if allowed by state and local authorities by burning.

FOR ANTIMICROBIAL USE WITH AQUEOUS TREATMENT FLUIDS IN

SUBTERRANEAN OIL FIELD AND GAS-FIELD WELL OPERATIONS SUCH AS WELL DRILLING, FORMATION FRACTURING, PRODUCTIVITY ENHANCEMENT AND SECONDARY RECOVERY.

PERACLEAN® 15 can be for control of slime forming and spoilage bacteria, yeast and fungi and anaerobic sulfate reducing bacteria, that lead to reservoir souring and metal corrosion.

This product must be introduced through a closed mixed/loading and delivery transfer system equipped with a metering device that is appropriate for its intended uses.

DRILLING MUDS, FRACTURING FLUIDS, WELL SOQUEEZED FLUIDS

For the preservation of drilling muds, workover and completion fluids and other product susceptible to contamination, pre-mix with the fluid or add directly at the point of use at 3.75 fluid ounces per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) as required. Depending on the severity of the contamination, initial application may be added up to 749 fluid ounces per 1000 gallons of water (1000 ppm).

FLOODING, INJECTION AND PRODUCED WATER

For Water Flooding operations, add initially at 3.75 fluid ounces per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) and repeat until control is achieved. Subsequent treatment may be continued on a weekly basis or as required.

Injection wells associated with gas storage systems may be treated up to 100 ppm when diluted in the formation water. Any additional top-up water should be treated as required.

For hydrostatic systems, apply 3.75 fluid ounces per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) depending on the water quality and the duration of the shut-in.

PIPELINE AND TANK MAINTENANCE

For microbial control in water-bottoms in crude and refined hydrocarbon storage tanks, piping and transportation systems. Apply 3.75 fluid ounces per 1000 gallons of water (5 ppm) to 75 fluid ounces per 1000 gallons of water (100 ppm) in the aqueous phase, directly injected into the water-bottom, pipeline or may be added to the hydrocarbon phase. Treatment may be applied daily or monthly for both storage and transportation systems as needed.



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